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... Hence, the first **switch** in the preparation device has ... be replaced by a symmetric 134 **optical** coupler. ... Schematic setup for four-letter **quantum key** distribution ...

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... Abstract—**Quantum key** distribution (QKD) enables uncondi- tional ... the distribution of cryptographic **key** material. ... QKD transmission through **optical** switches, we ...

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... text is encrypted with a random **key** as the ... and IL Chuang, **Quantum** Computation and **Quantum** Information (Cambridge ... check; SR represents an **optical** delay; **switch** ...

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... the sender (Alice) preparing a single photon in a **quantum** state and ... eventually leading to such high error rates that secret **key** generation is ... **Optical switch** ...

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... Figure 1. Eve's set-up for strategy A: S $\frac{1}{4}$ **optical switch**, PBS $\frac{1}{4}$ polarization beam splitter, C $\frac{1}{4}$ photon counter. ... Faint laser **quantum key** distribution 2015 ...

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... Abstrac t. Some guidelines for the comparison of di erent **quantum key** distribution experiments are proposed. An improved 'plug ...

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Quantum key distribution using non-orthogonal macroscopic signals

US Pat. 5515438 - Filed Nov 24, 1993 - International Business Machines Corporation

Quantum key distribution (henceforth QKD) allows two users to agree on a secret key in a similarly impromptu manner, just before it is needed, ...

Interferometric quantum cryptographic key distribution system

US Pat. 5307410 - Filed May 25, 1993 - International Business Machines Corporation

The logistic problems of **key distribution** and storage are so great that many applications, such as secure telephones, instead use purely mathematical ...

System and method for key distribution using quantum cryptography

US Pat. 5675648 - Filed Aug 15, 1995 - British Telecommunications public limited company

... **key distribution** ... **quantum** ...

Method for key distribution using quantum cryptography

US Pat. 5764765 - Filed Apr 22, 1996 - British Telecommunications public limited company

... **key distribution** ... **quantum** ...

Key distribution in a multiple access network using quantum cryptography

US Pat. 5768378 - Filed Mar 7, 1996 - British Telecommunications public limited company

65 made sufficiently large, say 105 photons, that the standard The **quantum key distribution** channel is arranged to detector registers a pulse which can be ...

Quantum key distribution method and apparatus

US Pat. 6678379 - Filed Jun 18, 1999 - NEC Corporation

The **quantum key distribution** method is currently the only 45 known method whereby shared keys necessary for the implementation of unconditionally secure ...

Optical pulse calibration for quantum key distribution

US Pat. 7242775 - Filed Nov 12, 2003 - MagiQ Technologies, Inc.

... A2 9/2001 OTHER PUBLICATIONS Stucki et al, "**Quantum Key Distribution** over 67 km with a plug and play system," New Journal of Physics 4 (2002) 41.1-41.8. ...

Single-photon watch dog detector for folded quantum key distribution system

US Pat. 7227955 - Filed Sep 25, 2003 - Magiq Technologies, Inc.

Stucki et al, "**Quantum Key Distribution** over 67km with a Plug & Play System", New Journal of Physics 4 (2002) 41.1-41.8. Gisin et al, "**Quantum Cryptography**" ...

Method and apparatus for free-space quantum key distribution in daylight

US Pat. 6748083 - Filed Apr 27, 2001 - The Regents of the University of California

... **quantum key distribution** ...

System and method for key distribution using quantum cryptography

US Pat. 5850441 - Filed Mar 8, 1996 - British Telecommunications public limited company


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C Gobby, ZL Yuan, AJ Shields - Arxiv preprint quant-ph/0412171, 2004 - arxiv.org

1 Quantum key distribution over 122 km of standard telecom fiber ... Figure 1 A schematic diagram showing the **fiber** optic **quantum key** distribution (QKD) system ...

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[Quantum key distribution over distances as long as 30 km - all 6 versions »](#)

C Marand, PD Townsend - Optics Letters, 1995 - OSA

... 9,10 Here we describe fully secure **quantum key** distribution over as long as 30 km of optical **fiber** and characterize the effects of error correction and pri ...

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[Practical quantum cryptography based on two-photon interferometry - all 5 versions »](#)

AK Ekert, JG Rarity, PR Tapster, G Massimo Palma - Physical Review Letters, 1992 - APS
 ... of a **quantum** channel which distributes the **key** and protects ... eavesdropping using the nature of **quantum** correlations ... are launched into separate **fiber**-optic cables ...

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CH Bennett - Physical Review Letters, 1992 - APS

... 47, 777 (1935) [SPIRES]; D. Bohm, **Quantum** Theory (Prentice ... consisting of two half-interferometers joined by a **fiber**. ... Bob can derive a secret **key** by subsequent ...

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DS Bethune, WP Risk, IBMAR Center, CA San Jose - **Quantum** Electronics, IEEE Journal of, 2000 - ieeexplore.ieee.org

... We have developed a system for **quantum key** distribution (QKD), based on standard telecommunication lasers, detectors, and optical **fiber**, that passively ...

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C Silberhorn, N Korolkova, G Leuchs - Physical Review Letters, 2002 - APS

... can easily infer h fi 1 in the **quantum** channel ... The information on the **key** is thus emerging only a ... simple and robust and well suited for both **fiber**-integrated or ...